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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,235	09/	04/2003	Fausto Casaro	02-41 US	5686
²³⁶⁹³ Varian Inc.	7590	12/31/2007		EXAMINER	
Legal Depar			CHANG, RICK KILTAE		
3120 Hanses Palo Alto, C	n Way D-102 CA 94304		ART UNIT	PAPER NUMBER	
,				3726	
				MAIL DATE	DELIVERY MODE
				12/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)						
	10/655,235	CASARO, FAUSTO						
Office Action Summary	Examiner	Art Unit						
	Rick K.//Chang	3726						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timurill apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE.	N. nely filed the mailing date of this communication. D. (35.U.S.C. 6.133)						
Status								
1) Responsive to communication(s) filed on 23 Oc	ctober 2007.							
_	action is non-final.							
3) Since this application is in condition for allowar		secution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdraw	vn from consideration.							
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-7</u> is/are rejected.		·						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9)☐ The specification is objected to by the Examiner	•							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the o								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119		•						
12) Acknowledgment is made of a claim for foreign ¡ a) All b) Some * c) None of:	oriority under 35 U.S.C. § 119(a)	-(d) or (f).						
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
	·							
•		•						
Attachment(s)								
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413) ·						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Dat	e						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa 6) Other:	tent Application						
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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I in the reply filed on 10/23/07 is acknowledged.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 5-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

There is only one step of forming a cavity, but the claims provide the limitations "the steps of forming a cavity" and "the steps of forming a central bore". Claims are ambiguous and competitors would be unable to discern the bounds of the invention.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Shigihara et al (US 6,094,815).

Shigihara discloses a workpiece (S1); forging (S4) having a homogenous mechanical properties (col. 4, lines 50-53); it is inherent that vane grooves 71 will be occupied by vanes; 10

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prevents the workpiece from radial expansion; since Shigihara discloses all the claimed steps, the rotor is a bell-shaped rotor; 80 and 22 form cavities while the workpiece is prevented from its radial expansions by a mold 20 (col. 4, lines 31-45); polishing the cavities (col. 4, lines 11-13).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shigihara et al (US 6,094,815) in view of Papst et al (US 3,786,290), and further in view of Parizek (US 4,789,410).

Shigihara fails to disclose forming a central bore on a bottom of the cavity and subsequently performing a thermal treatment.

Papst discloses forming a central bore (where 11 is going thru 14) on a bottom of the cavity (where 11 lies).

Parizek discloses performing a thermal treatment (Abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shigihara by forming a central bore on a bottom of the cavity and subsequently performing a thermal treatment, as taught by Papst and Parizek, for the purpose of placing a stator and establishing metallurgical and mechanical properties.

8. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shigihara et al (US 6,094,815) as applied to claim 1 above, and further in view of Sun (US 5,507,617).

Shigihara fails to disclose milling the vanes.

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Sun discloses milling the vanes (col. 5, lines 41-43).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Shigihara by milling the vanes, as taught by Sun, for the purpose of removing unwanted burrs and imperfections from the vanes to meet the desired design characteristics.

Conclusion

- 9. Please provide reference numerals (either in parentheses next to the claimed limitation or in a table format with one column listing the claimed limitation and another column listing corresponding reference numerals in the remark section of the response to the Office Action) to all the claimed limitations as well as support in the disclosure for better clarity (optional). Applicants are duly reminded that a full and proper response to this Office Action that includes any amendment to the claims and specification of the application as originally filed requires that the applicant point out the support for any amendment made to the disclosure, including the claims. See 37 CFR 1.111 and MPEP 2163.06.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick K. Chang whose telephone number is (571) 272-4564. The examiner can normally be reached on 5:30 AM to 1:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David P. Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> /Rick K. Chang/ Primary Examiner, A.U. 3726

RC December 20, 2007